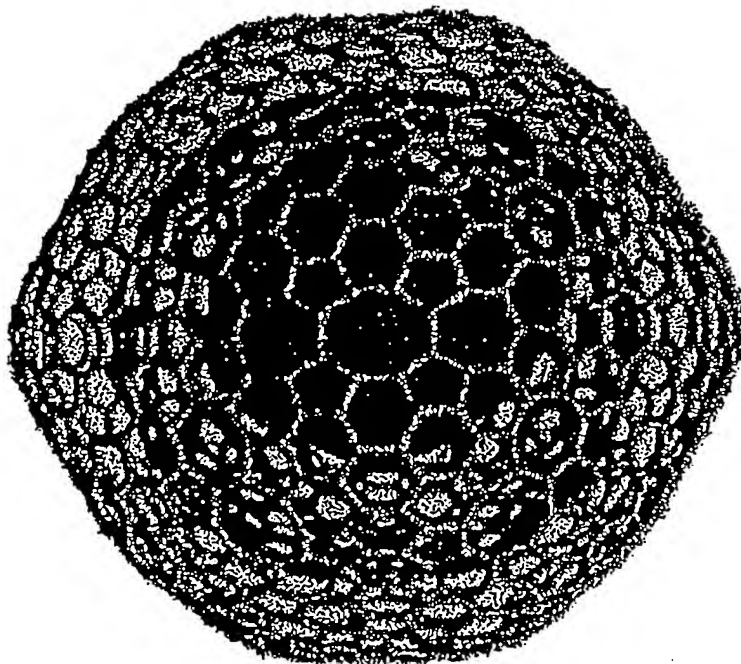
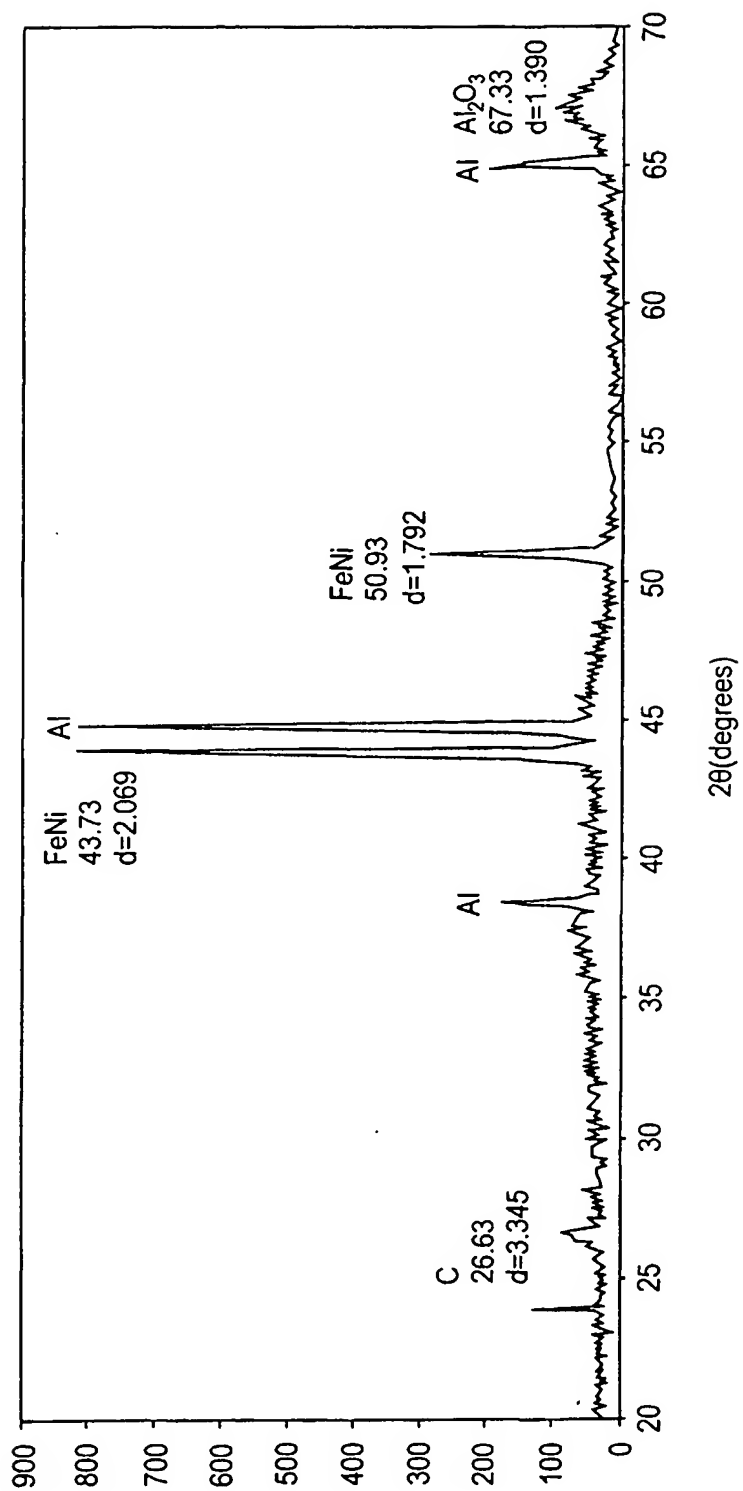
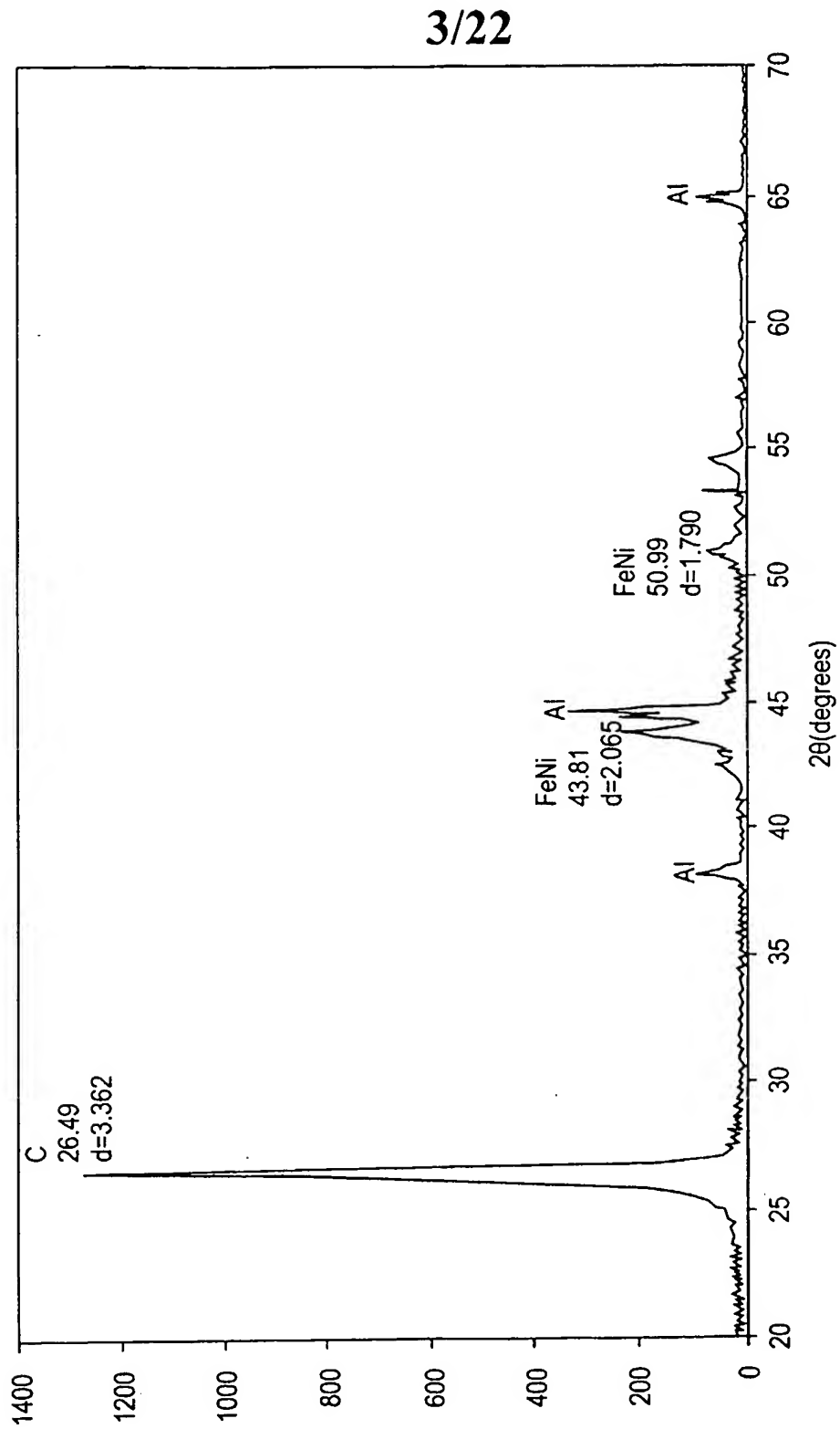


1/22

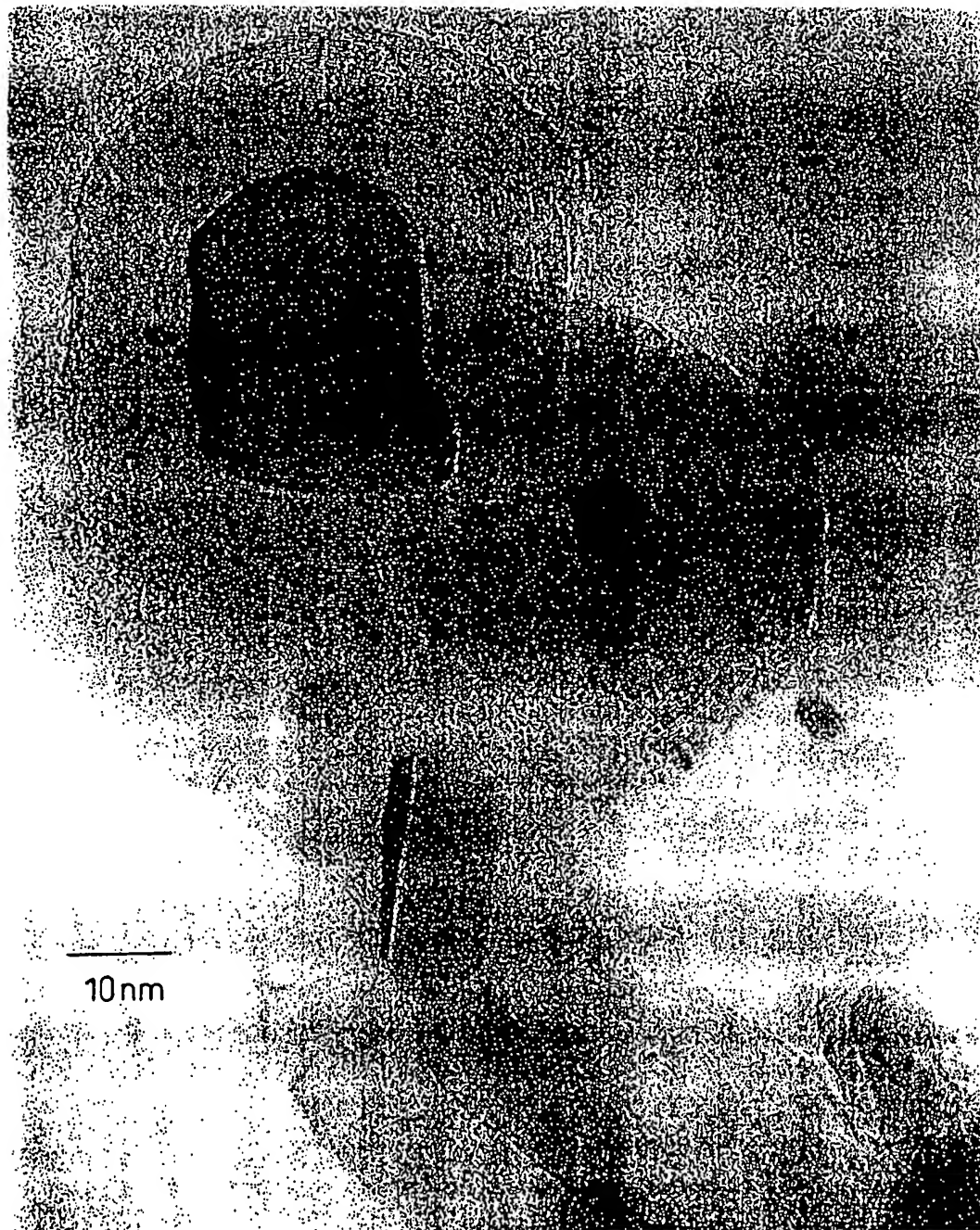
*Fig. 1*

2/22

*Fig. 2a*

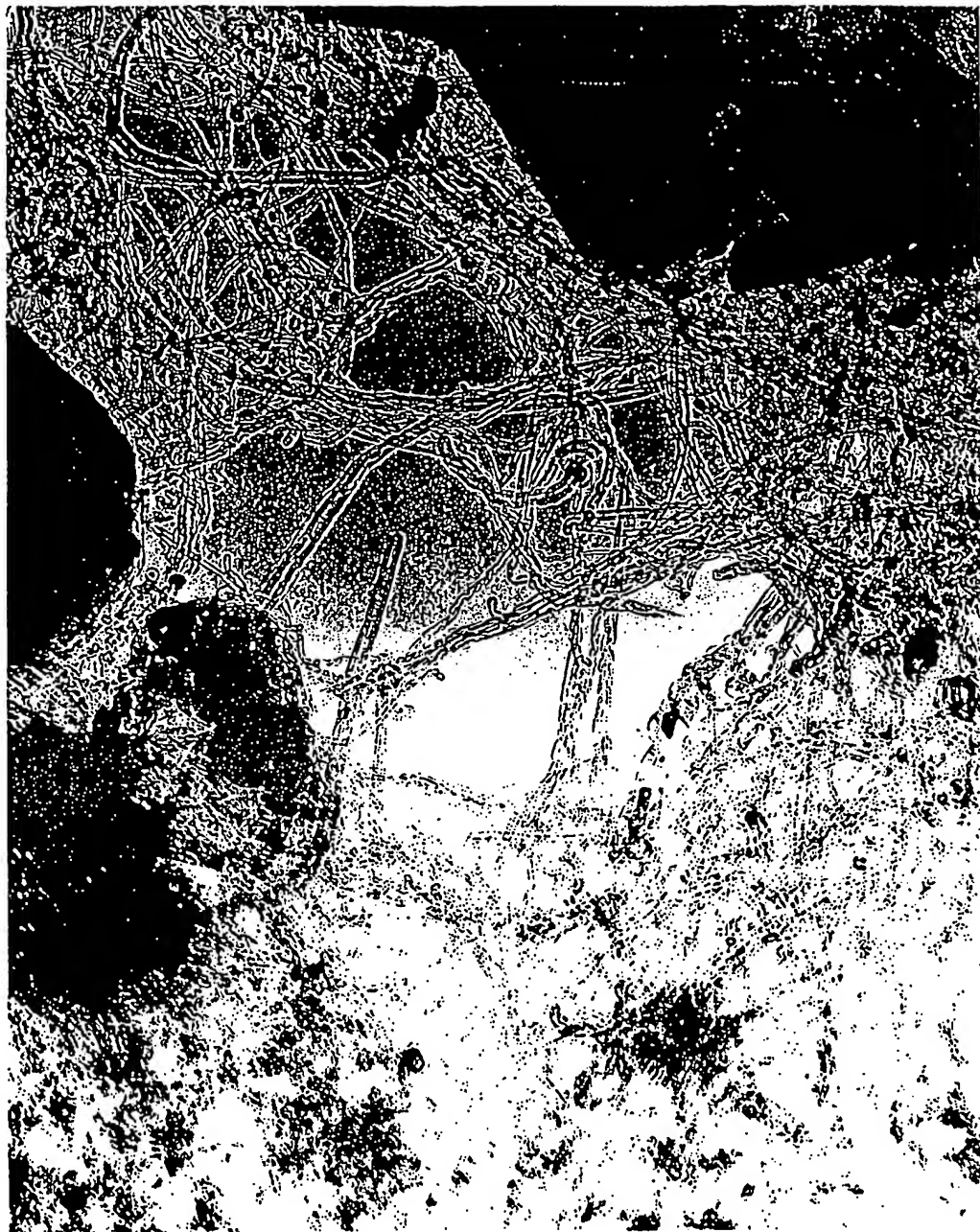
**Fig. 2b**

4/22



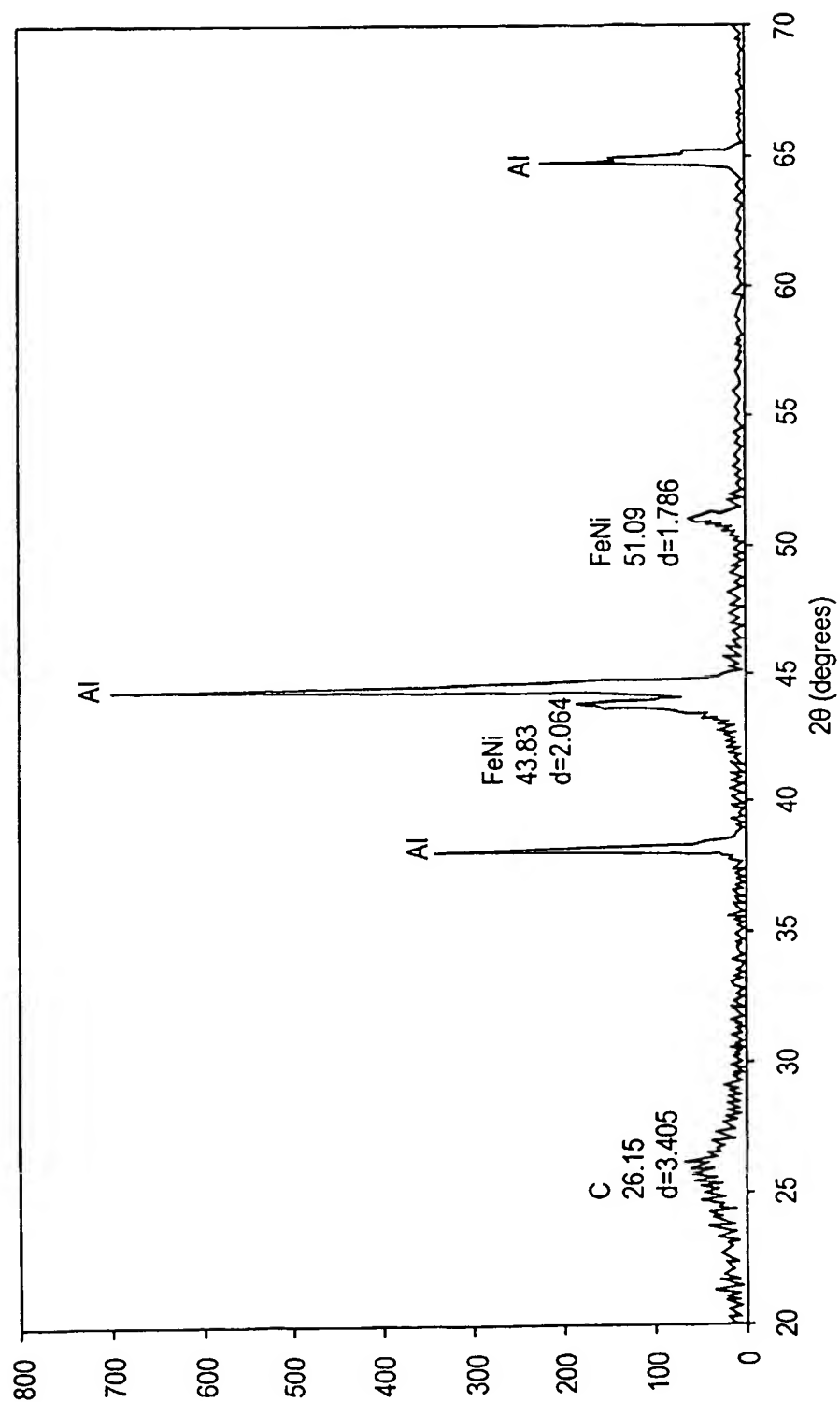
*Fig. 3*

5/22

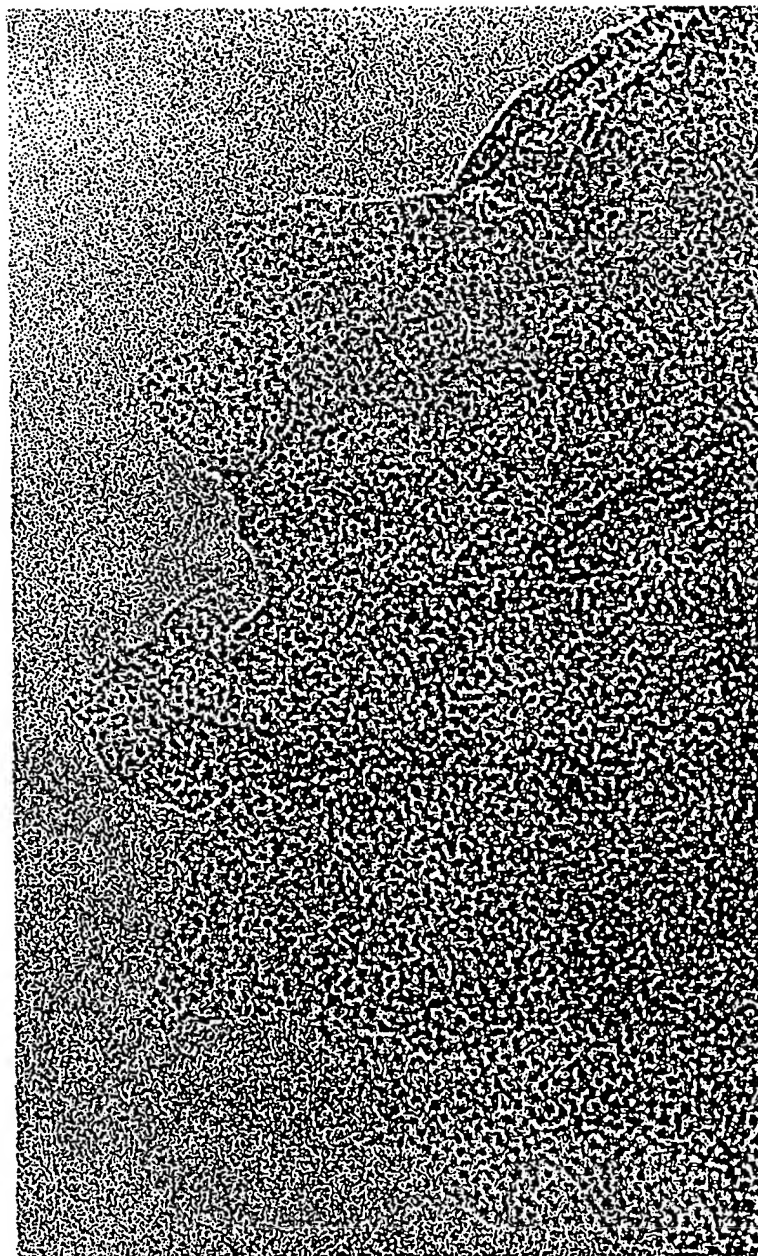


*Fig. 4*

6/22

**Fig. 5**

7/22



*Fig. 6*

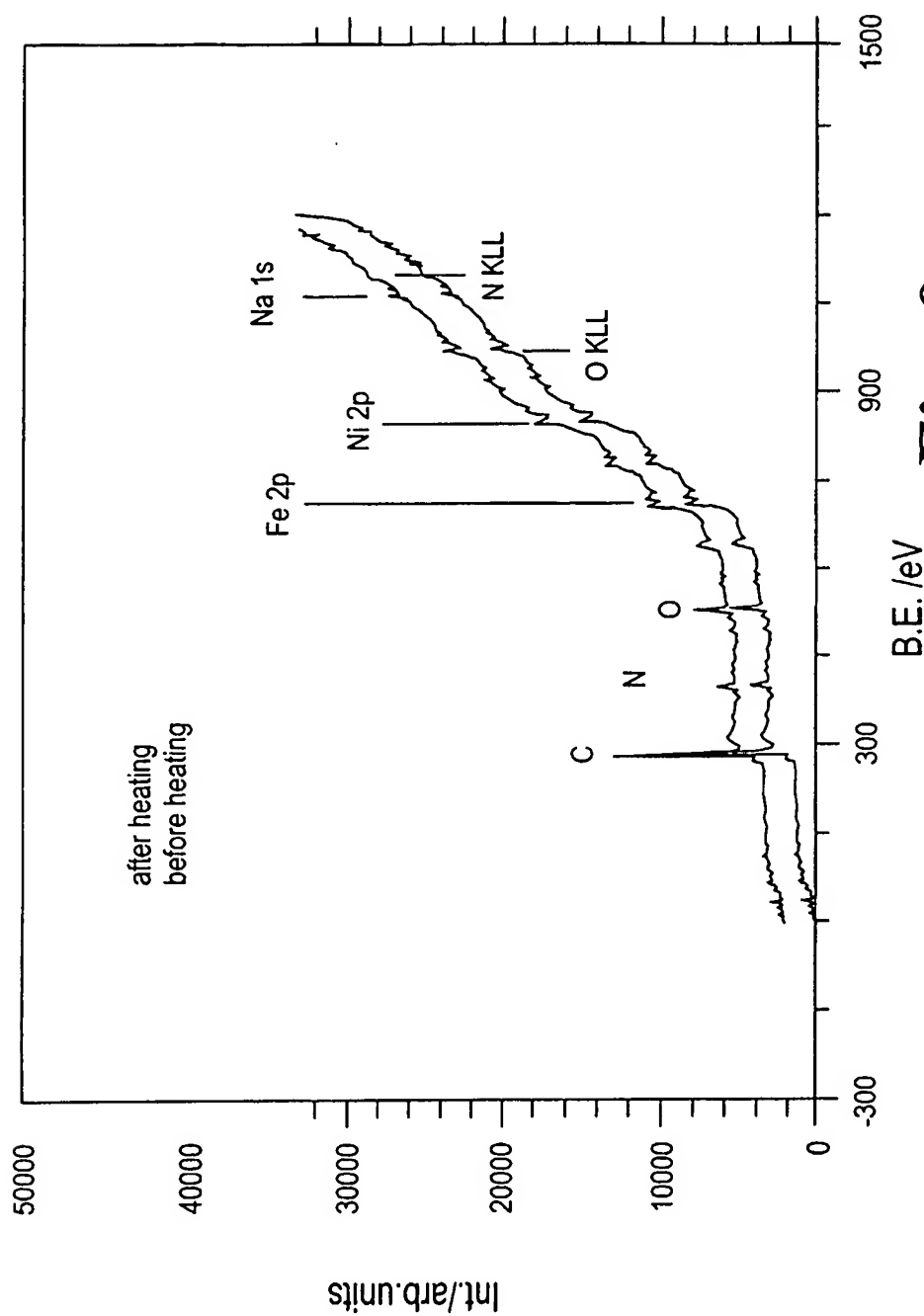
8/22



*Fig. 7*

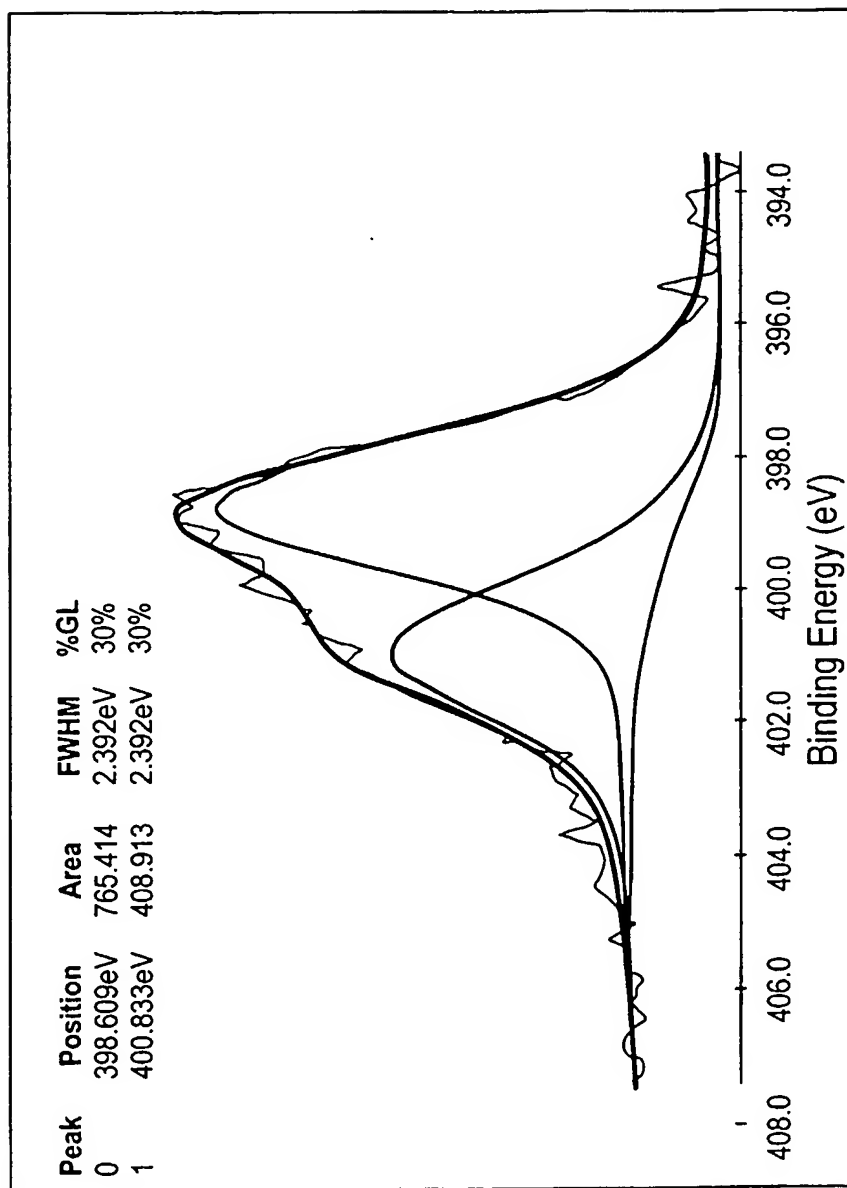


9/22



**Fig. 8a**

10/22



*Fig. 8b*

11/22

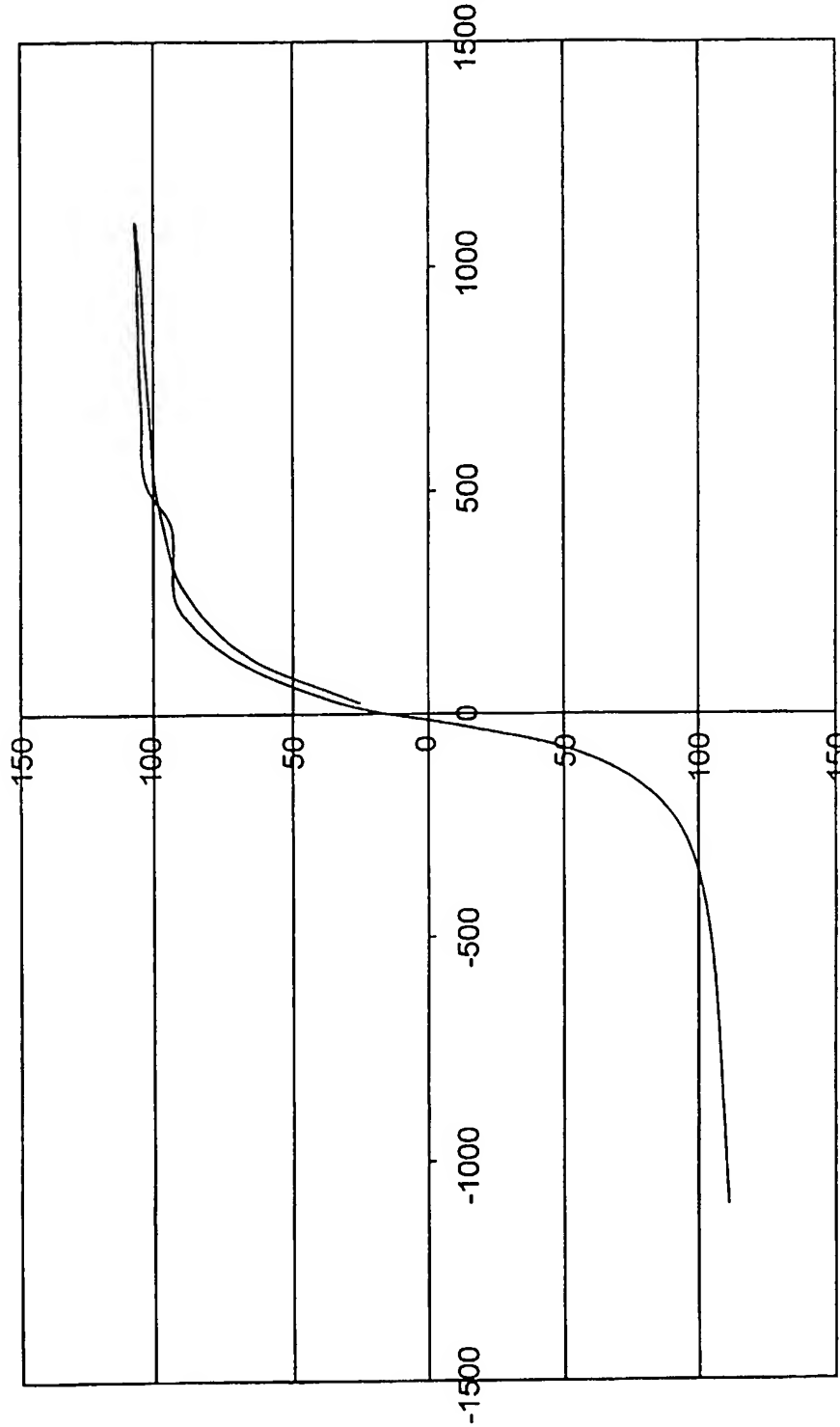
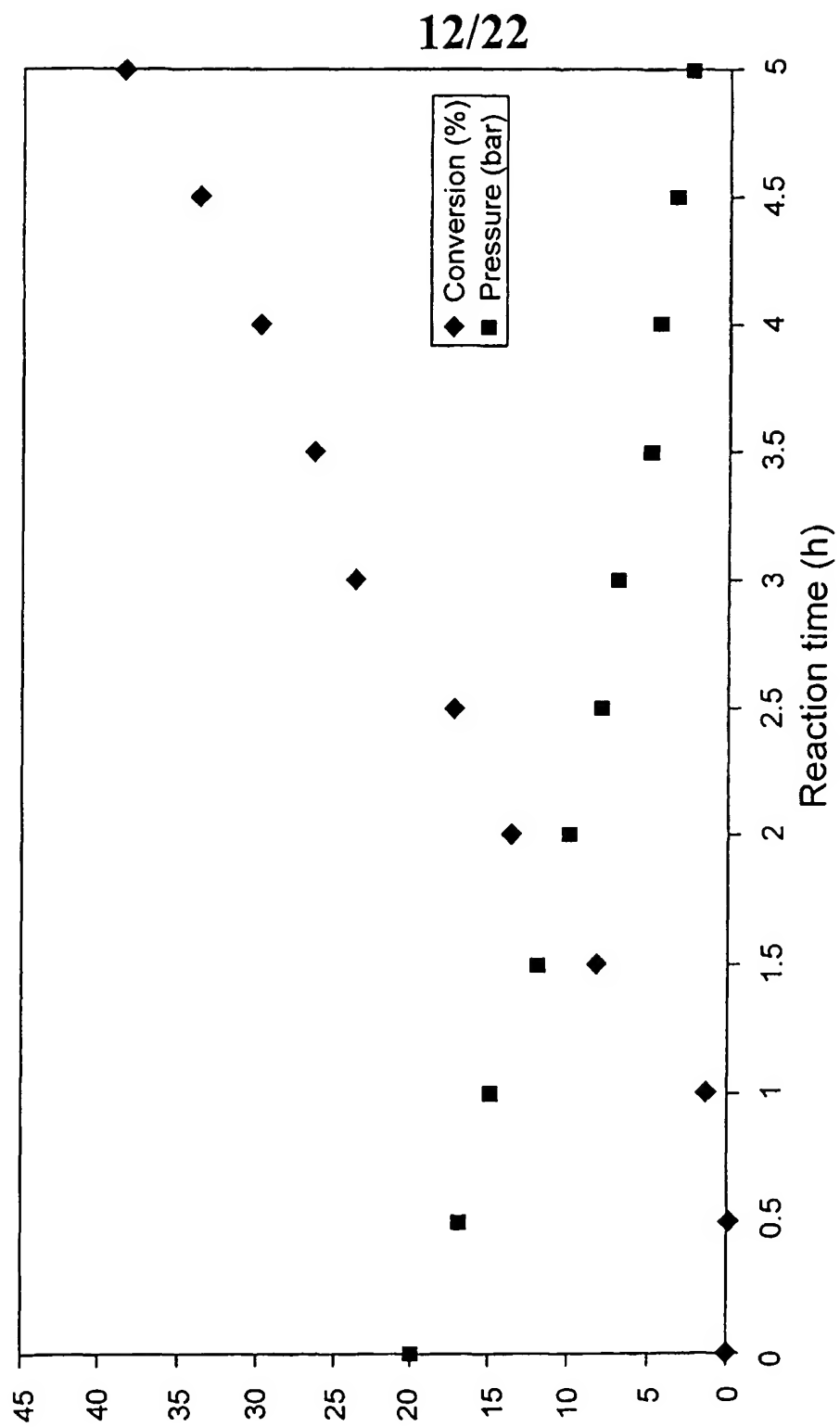
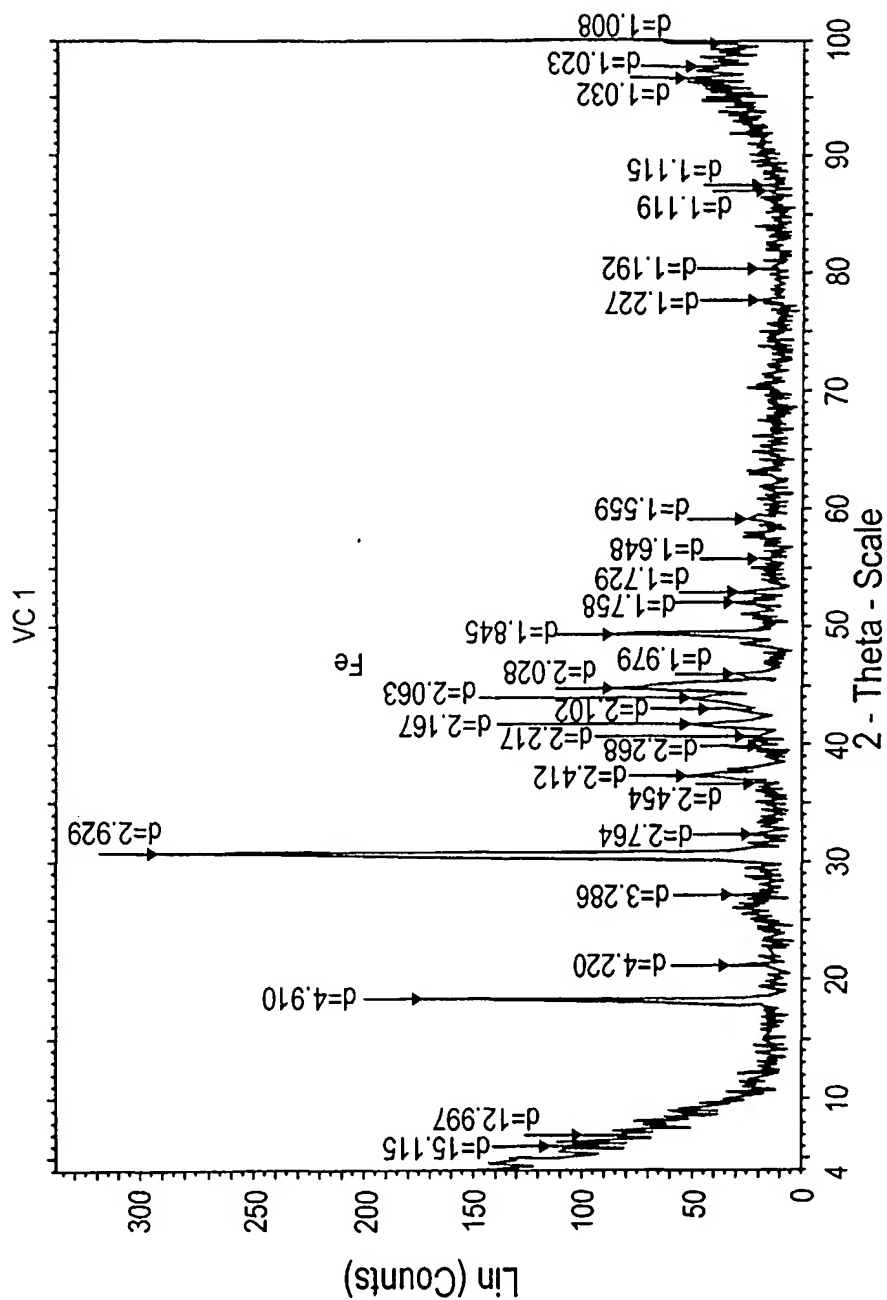


Fig. 9

*Fig. 10*

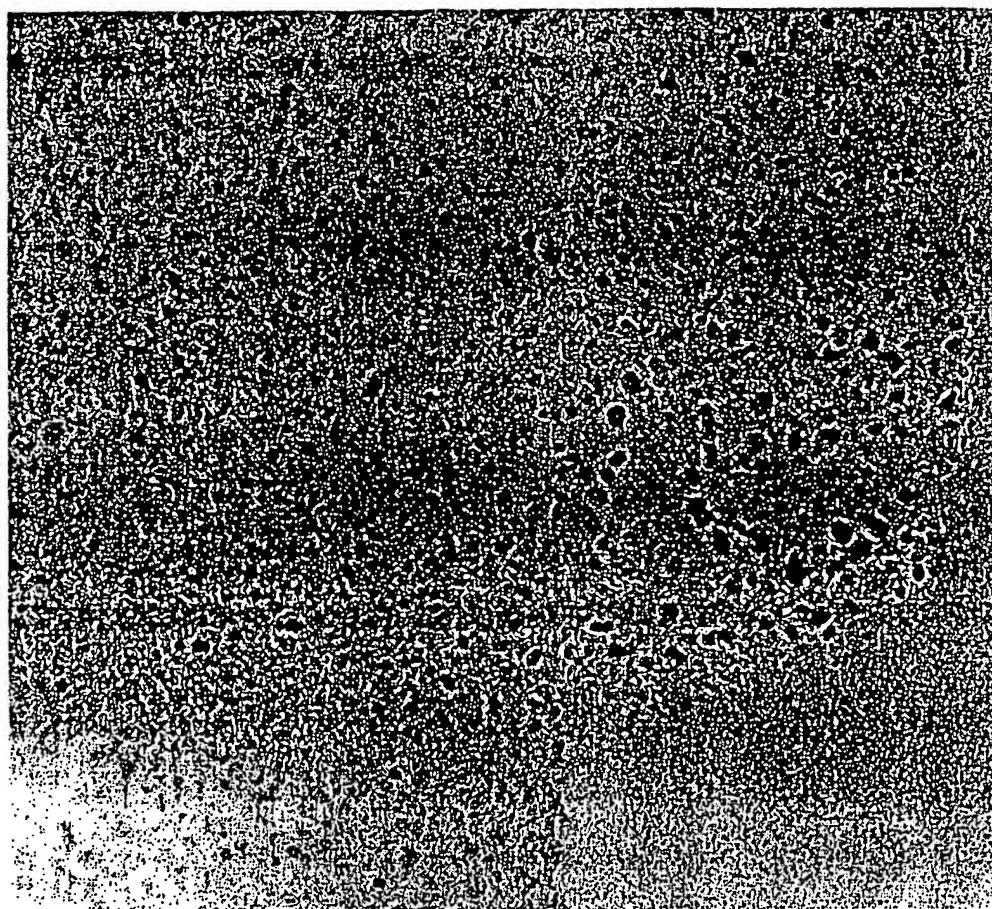
13/22



XRD spectrum of the FE/Ca system after calcination

**Fig. 11**

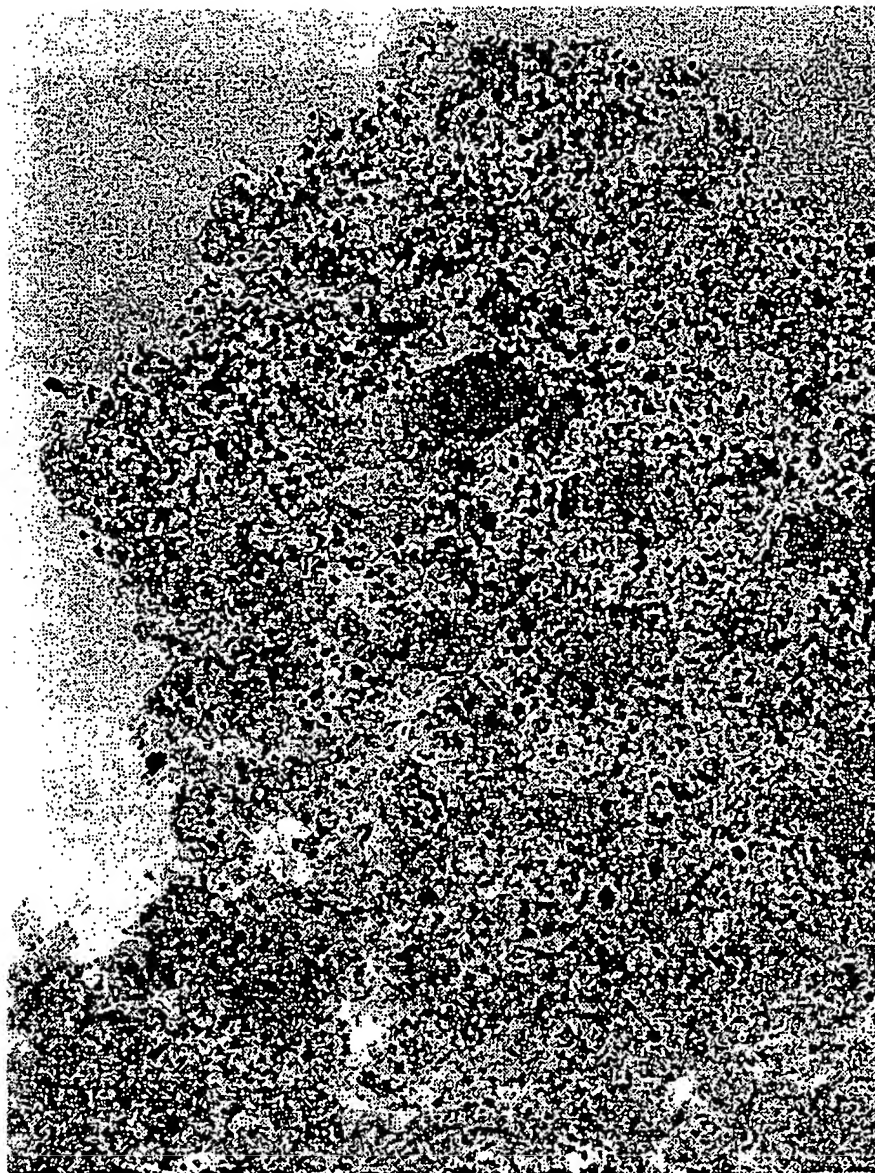
14/22



*TEM micrograph of the Fe/Ca system before calcinations (x 800,000)*

***Fig. 12***

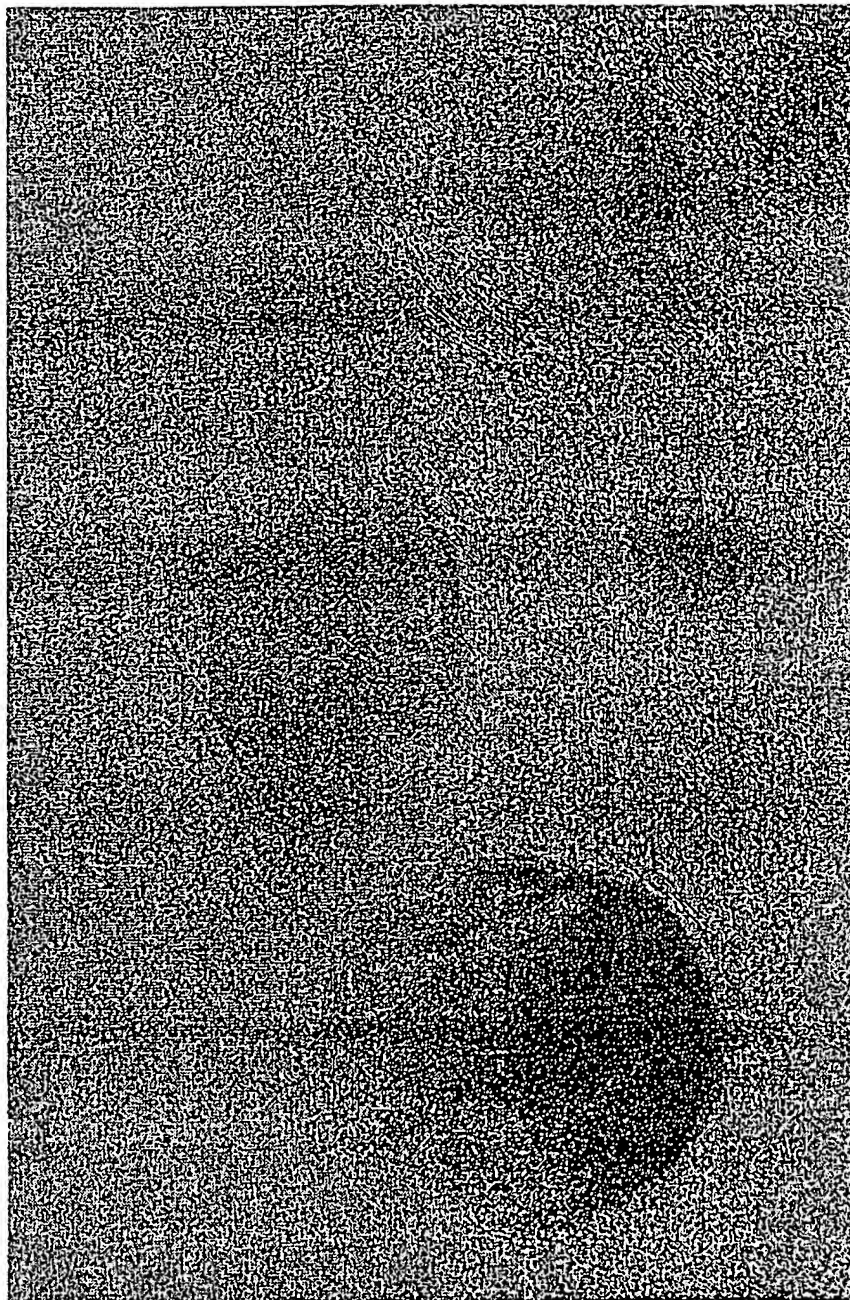
15/22



**Fig. 13**

*TEM micrograph of the Fe/Ca system after calcinations (x 60,000)*

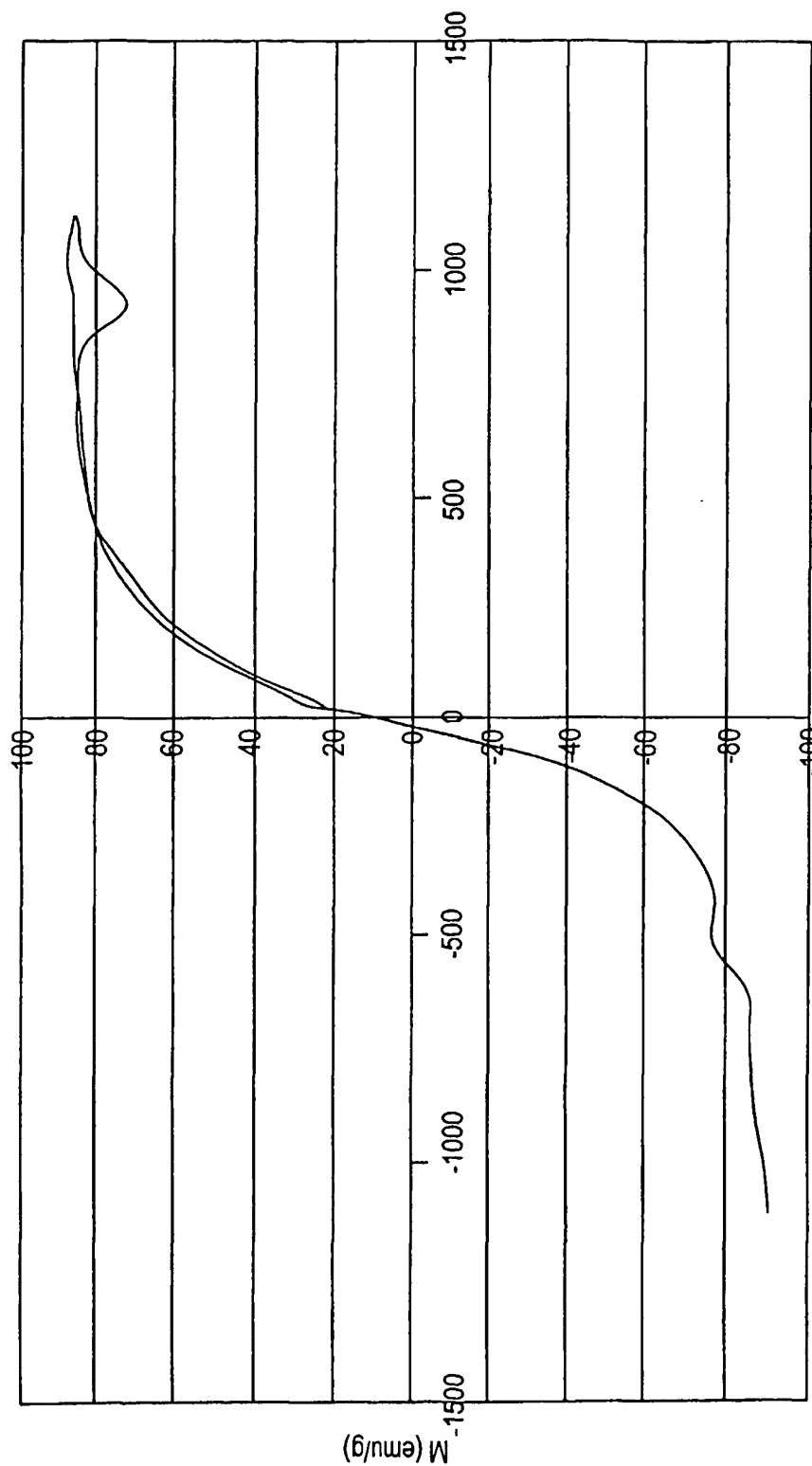
16/22



*High resolution TEM micrograph of the Fe/Ca system after calcinations ( $\times 1,240,000$ )*

***Fig. 14***

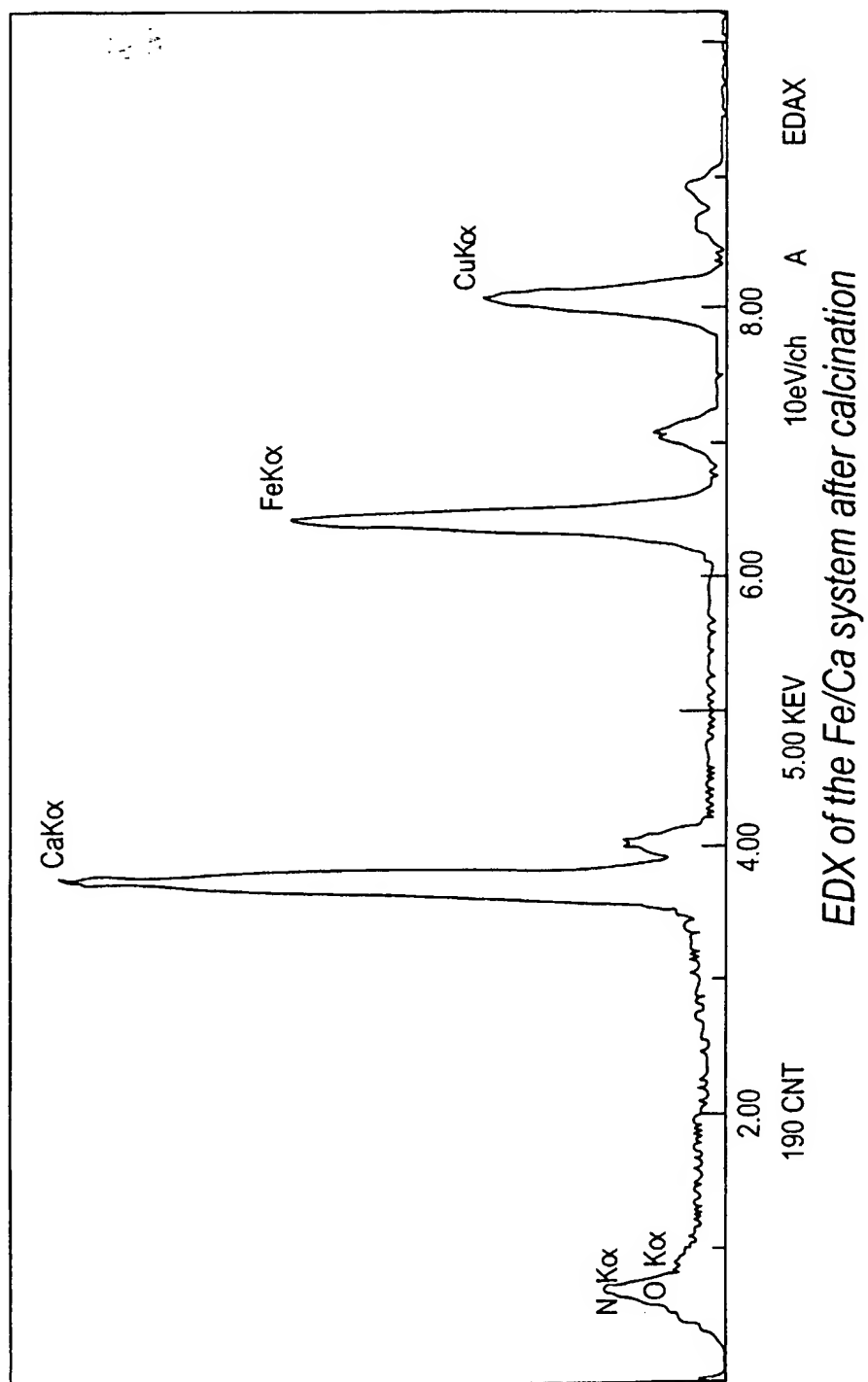




**Fig. 15**

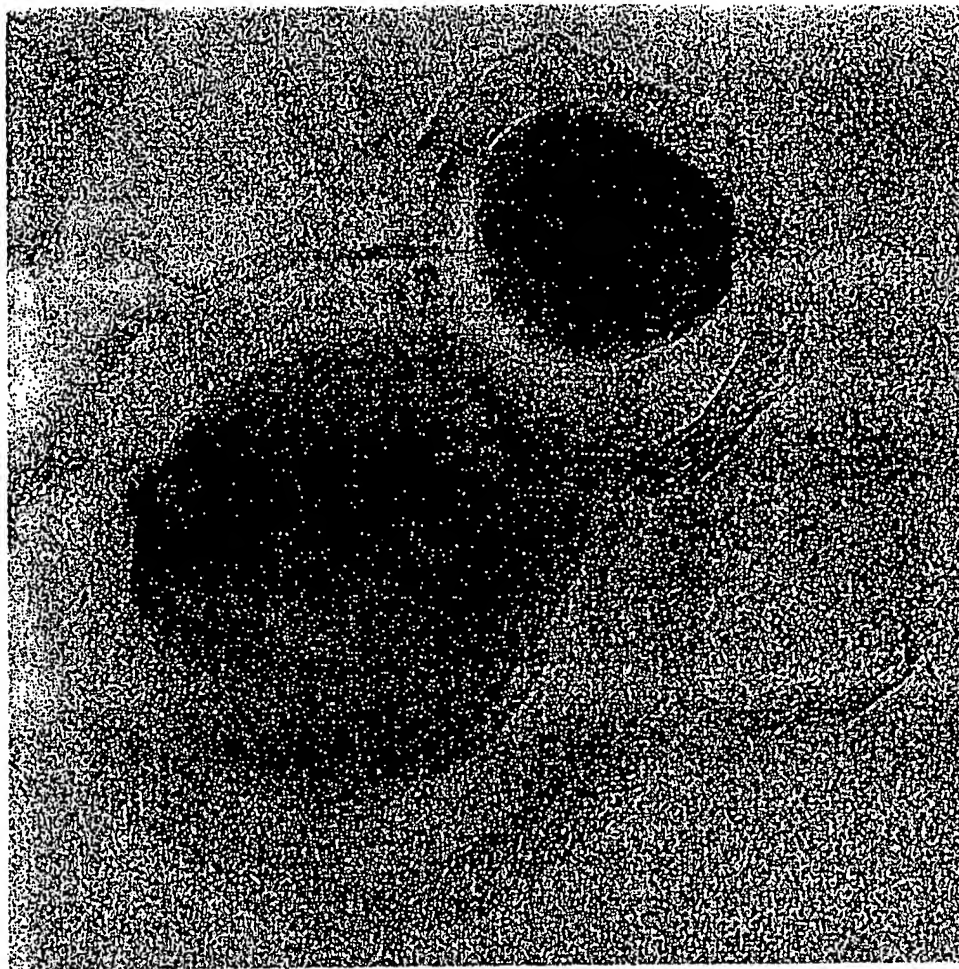
VSM of the Fe/Ca system after calcination.

18/22



**Fig. 16**

19/22



*High resolution TEM micrograph of the Fe/Mn system after calcinations (x 1,000,000)*

***Fig. 17***

20/22



*TEM micrograph of the Fe/Mn system after calcinations (x 200,000)*

***Fig. 18***

21/22

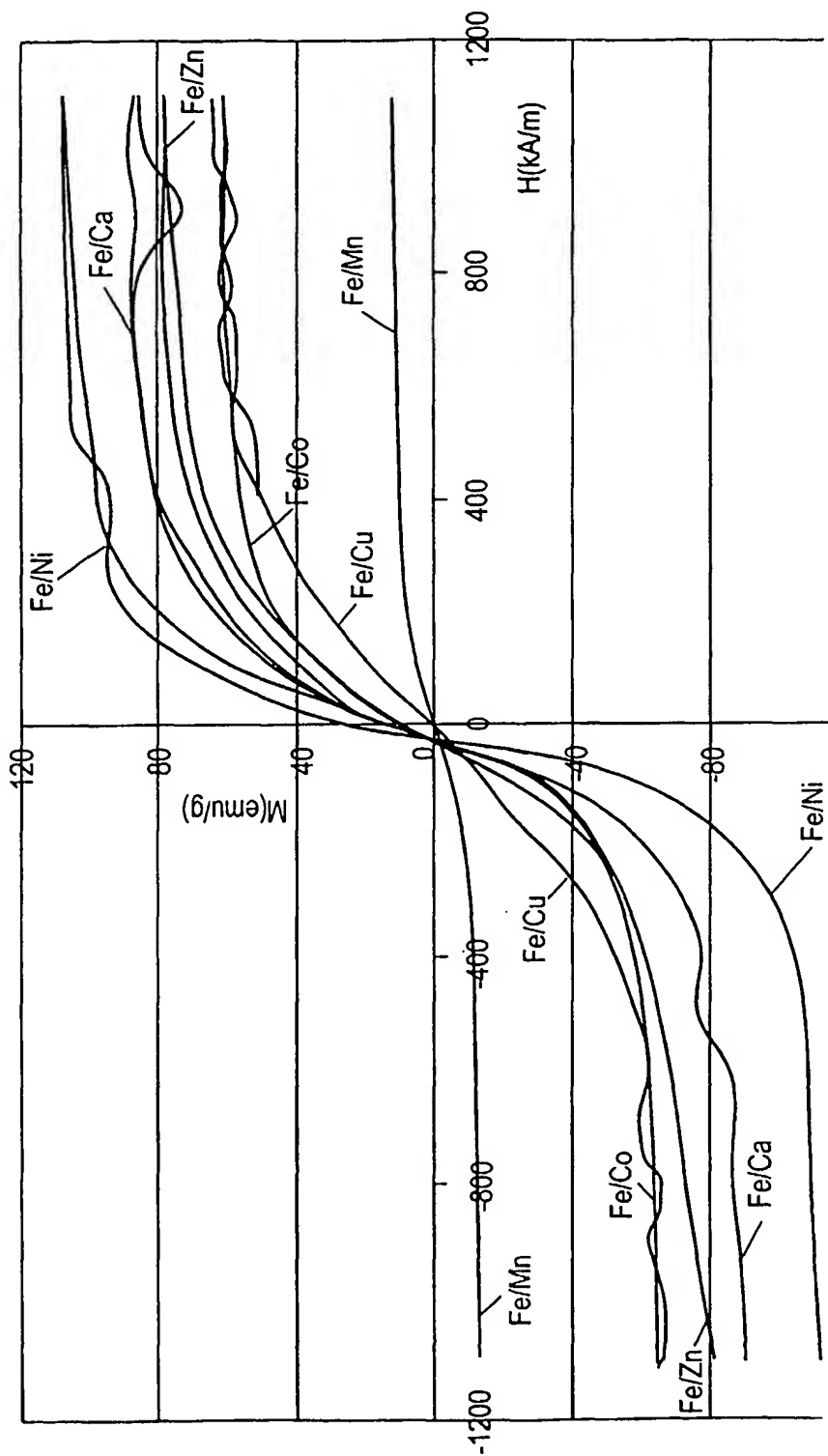


Fig. 19

22/22

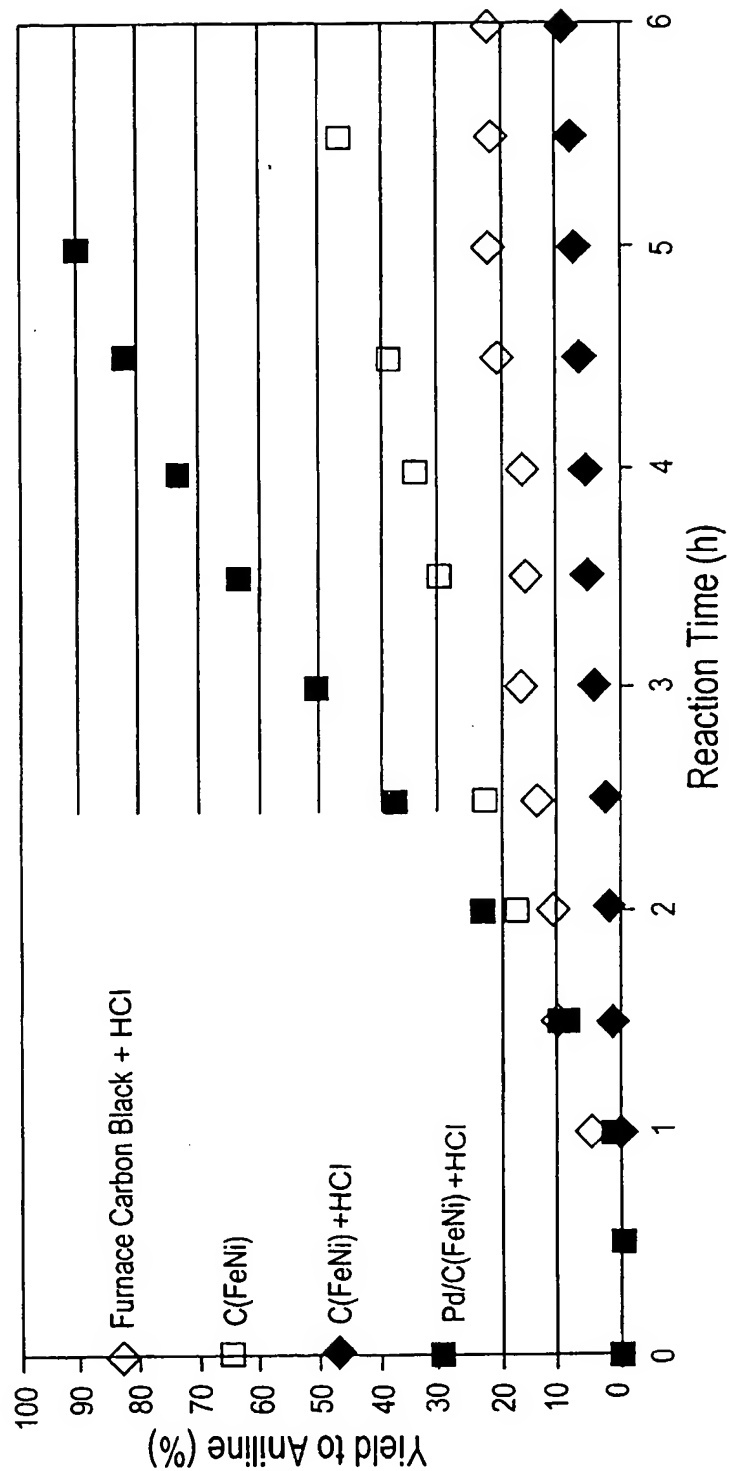


Fig. 20

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**